

Chapter I

Introduction

I. INTRODUCTION

I.A. Background: Section 120 of CERCLA

Congress passed the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (Public Law 96-510), commonly known as Superfund, in 1980. The primary goal of the Act is to encourage the identification and remediation of sites contaminated with hazardous substances.

The Superfund Amendments and Reauthorization Act (SARA) (Public Law 99-499), which amended CERCLA in 1986, added certain specific provisions applicable to the cleanup of contaminated sites at Federal facilities. These provisions, located in Section 120 of CERCLA, are briefly described below.

Under Section 120(a)(1), CERCLA specifies that Federal departments, agencies, and instrumentalities must comply with CERCLA in the same manner and to the same extent as nongovernmental entities. Except for requirements applicable to bonding, insurance, or financial responsibility, all guidelines, rules, regulations and criteria applicable to preliminary assessments (PAs), National Contingency Plan (NCP) evaluations, inclusion on the National Priorities List (NPL), and the conduct of remedial action are applicable to contaminated sites at Federal facilities (Sections 120(a)(2), (3), and (4)).

Even before the passage of SARA, Federal agencies were required to identify sites where hazardous waste was treated, stored, or disposed of at any time. SARA added Section 120(b), which requires Federal agencies to also identify contamination affecting contiguous or adjacent property and any monitoring data associated with this contamination.

Section 120(c) of CERCLA requires the U.S. Environmental Protection Agency (EPA) to compile information about contaminated sites at Federal facilities and to enter the information into the Federal Agency Hazardous Waste Compliance Docket (the docket). The docket must also include information about Federal facilities where hazardous wastes are generated and managed under Sections 3005 and 3010 of the Resource Conservation and Recovery Act (RCRA), even if these facilities are not contaminated.

To compile the docket, each Federal Agency, including the U.S. Department of Energy (DOE), notifies the EPA of hazardous waste activity under:

- CERCLA Section 103 (notification of a release or potential release);
- RCRA Section 3005 (permitting authority);
- RCRA Section 3010 (notification of hazardous waste activity for generators, transporters, and treatment, storage, and disposal facilities); and
- RCRA Section 3016 (biennial inventory of hazardous waste treatment, storage, and disposal facilities).

Certain Federal facilities that conduct hazardous waste activities under these sections of CERCLA and RCRA are, however, exempt from docket listing. These facilities include small quantity generators of hazardous waste (generators of less than 1,000 kg/month of hazardous waste) and facilities that notify the EPA of hazardous waste activity under Section 3010 of RCRA only because they are transporters of hazardous waste.

Information submitted to the EPA under the above requirements is entered into several EPA databases. The EPA extracts the information from the databases to compile a proposed update to the docket that is provided to Federal agencies, including DOE. The DOE reviews the proposed docket update and provides formal comments to EPA headquarters.

A facility is listed on the docket with a code that relates to the facility's NPL status. The NPL is EPA's list of the most serious or abandoned hazardous waste sites identified for long-term remedial action under CERCLA. Sites are placed on the NPL if they receive a threshold score from EPA's Hazard Ranking System. Docket status codes and their meanings are as follows:

U	Undetermined
N	No Further Remedial Action Planned
P	Currently Proposed for the National Priorities List
F	Currently Final on the NPL
R	Removed from the Proposed NPL and No Longer Considered for the Final NPL
D	Deleted from the Final NPL

The EPA assigns the N code, which denotes No Further Remedial Action Planned (NFRAP), to facilities that are not likely to be placed on the NPL and where no further involvement by the EPA in site assessment or cleanup is anticipated.

Section 120(d) of CERCLA requires Federal agencies to conduct a PA of facilities listed on the docket within 18 months after docket listing. If the PA indicates a need for further investigation, the responsible agency must conduct a site investigation (SI). Based on information developed in the PA or Preliminary Assessment/Site Investigation (PA/SI), the EPA must determine if: 1) no further remedial action is necessary at this time; or 2) further evaluation and possible inclusion on the NPL are warranted.

Section 120(e) of CERCLA requires Federal agencies that own or operate facilities on the NPL to begin a remedial investigation and feasibility study (RI/FS) for these facilities not later than six months after being placed on the NPL. The EPA must review the results of each Federal facility RI/FS. Within 180 days after the completion of EPA's review, Federal agencies must enter into interagency agreements (IAGs) with the EPA for expeditious completion of remedial action at the facility. The contents of IAGs must include:

- A review of alternative remedial actions and selection of a remedial action,
- A schedule for the completion of the remedial action, and
- Arrangements for long-term operation and maintenance of the facility.

Remedial action must begin not later than 15 months after the completion of an RI/FS and must be completed "as expeditiously as practicable." To ensure that adequate funds are appropriated to perform cleanup, Federal agencies must include a statement of the hazards posed to human health, welfare, and the environment by each facility on the NPL. Also, specific consequences of failure to begin and complete remedial action must be identified and included in annual budget submissions to Congress.

I.B. CERCLA Section 120(e)(5): Annual Report to Congress

Under Section 120(e)(5) of CERCLA, each department, agency, or instrumentality of the Federal government responsible for compliance with Section 120 must submit an annual report to Congress concerning its

progress in implementing the requirements of Section 120. The report must include information on at least the following items:

- Progress in reaching IAGs under CERCLA Section 120,
- Specific cost estimates and budgetary proposals involved in each IAG,
- A brief summary of the public comments regarding each proposed IAG,
- A description of the instances in which no IAG was reached,
- Progress in conducting RI/FSs,
- Progress in conducting remedial actions,
- Progress in conducting remedial actions at facilities which are not on the NPL,
- An explanation of any failure to conclude an IAG within 180 days after EPA review, and
- A detailed description on a state-by-state basis of the status of each facility subject to CERCLA Section 120, including a description of the hazards presented by each facility, plans and schedules for initiating and completing response actions, enforcement status (where appropriate), and an explanation of any postponements or failure to complete response actions.

This report is being submitted to Congress in accordance with Section 120(e)(5) of CERCLA. It is DOE's Eleventh Annual Report to Congress under Section 120(e)(5) and provides information on DOE's progress in implementing CERCLA Section 120 in fiscal year 1997 (FY 97), i.e., from October 1, 1996, to September 30, 1997.

I.C. Remediation Progress at DOE Sites/Facilities

Figure I-1 shows the location of DOE Sites/Facilities subject to CERCLA Section 120. These Facilities are listed by state in Table I-1 on page I-9. The table shows the status of each Facility as listed on the docket, the type of contamination present, and the current status of remediation at each Facility.

The Office of Environmental Management (EM) has developed a methodology to measure the progress of remediation at EM Facilities on the NPL. For each Facility, EM determines the number of release sites and facilities. A release site is defined as a unique location where a hazardous, radioactive, or mixed waste release has occurred or is suspected to have occurred. It is usually associated with an area where wastes or substances contaminated with wastes have been disposed of, treated, stored, and/or used. A facility is defined as a uniquely identifiable building or structure where a hazardous, radioactive, or mixed waste release has occurred or is suspected to have occurred. Sometimes a facility is a room or a part of a building. Release sites and facilities will hereafter be referred to as release sites.

Environmental Management places each release site in one of three remediation phases or categories:

- Assessment - a site undergoing a preliminary assessment or in the study phase. Documents in final form have not been submitted to the regulator for either a remedial action or no response action decision.

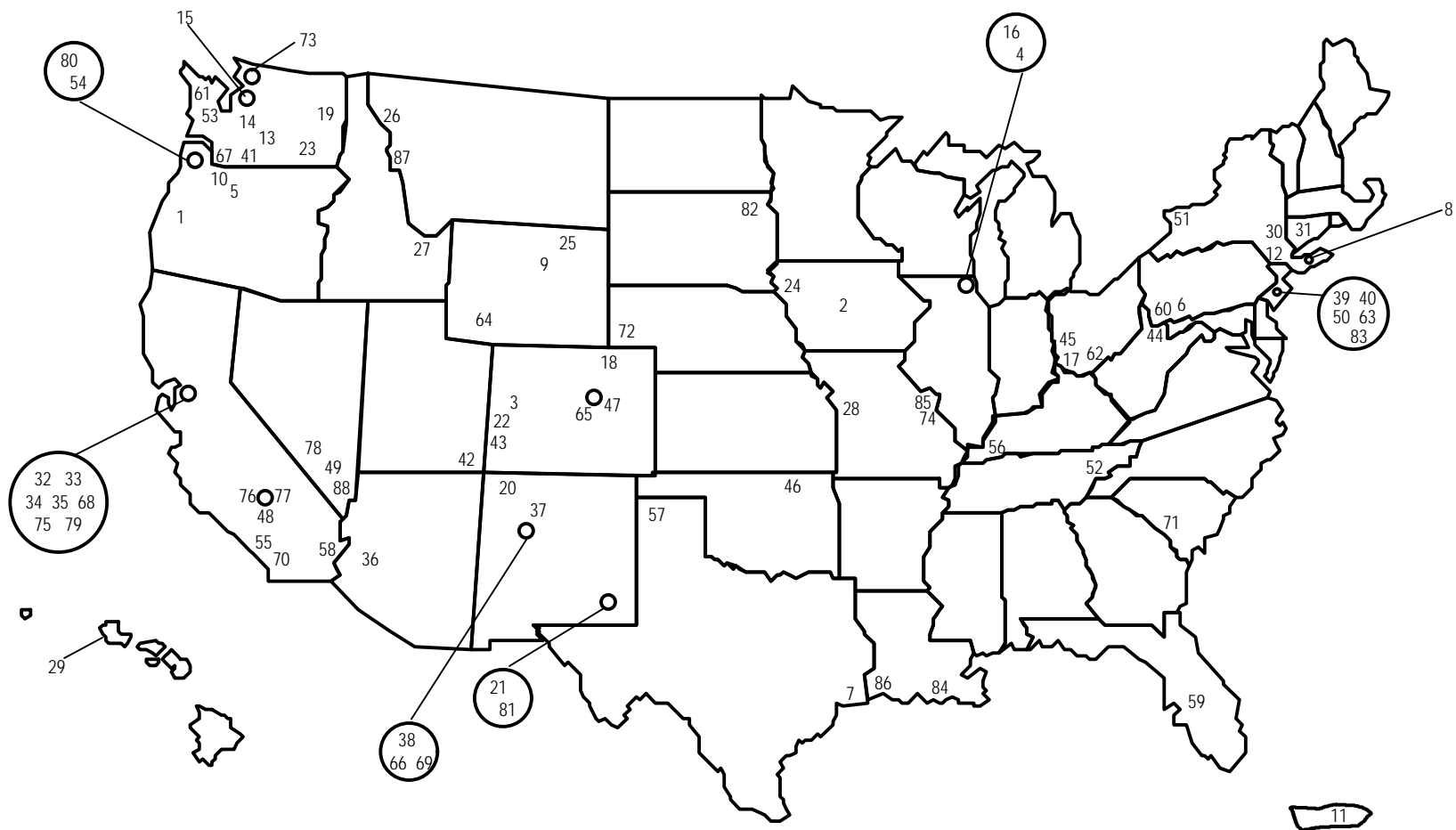


Figure I-1. Locations of All DOE Facilities/Sites Subject to Section 120 of CERCLA

1	Alvey Maintenance Headquarters, OR	48	Naval Petroleum Reserve Nos. 1 & 2, CA
2	Ames Laboratory, IA	49	Nevada Test Site, NV
3	Anvil Points Facility, Naval Oil Shale Reserve No. 3, CO	50†	New Brunswick Laboratory, NJ
4	Argonne National Laboratory - East, IL	51†	Niagara Falls Storage Site, NY
5	Bake Oven Substation, OR	52*	Oak Ridge Reservation, TN
6	Bettis Atomic Power Laboratory, West Mifflin, PA	53	Olympia Substation, WA
7	Big Hill Site, TX	54	Ostrander Substation, OR (Oregon City, OR)
8*	Brookhaven National Laboratory, NY	55	Oxnard Facility, CA
9	Casper Field Branch, WY	56*	Paducah Gaseous Diffusion Plant, KY
10	Celilo Converter Station, OR	57*	Pantex Plant, TX
11	Center for Energy and Environmental Research, PR	58	Parker Dam Switchyard, CA
12†	Colonie Site, NY	59	Pinellas Plant, FL
13	Columbia Basin Project AEC Zone 2,4-D Site, WA	60	Pittsburgh Energy Technology Center, PA
14	Columbia Substation, WA	61	Port Angeles, WA
15	Covington Substation, WA	62	Portsmouth Uranium Enrichment Complex, OH
16	Fermi National Accelerator Laboratory, IL	63	Princeton Plasma Physics Laboratory, NJ
17*	Fernald Environmental Management Project, OH	64	Rock Springs Oil Shale Retort, WY
18	Fort Morgan Substation, CO	65*	Rocky Flats Environmental Technology Site, CO
19	G.H. Bell Substation and Maintenance Complex, WA	66	Ross Aviation, Inc., NM
20	Gasbuggy, NM	67	Ross Complex, WA
21	Gnome-Coach, NM	68	Sandia National Laboratories/California, CA
22	Grand Junction Projects Office Remedial Action Project, CO	69	Sandia National Laboratories/New Mexico, NM
23**	Hanford, WA	70	Santa Susana Field Laboratories, CA
24	Hinton Hazardous Waste Storage Facility, IA	71*	Savannah River Site, SC
25	Hoe Creek, WY	72	Sishc Foundry Site, NE
26	Hot Springs Substation TLM Complex, MT	73	Snohomish Substation, WA
27*	Idaho National Engineering Laboratory, ID	74*†	St. Louis Site, MO
28	Kansas City Plant, MO	75	Stanford Linear Accelerator Center, CA
29	Kauai Test Facility, HI	76	Texaco Section 8 Central Solid Waste Site, CA
30	Knolls Atomic Power Laboratory, Niskayuna and West Milton Sites, NY	77	Texaco Section 8 Gas Plant, CA
31	Knolls Atomic Power Laboratory, Windsor Site, CT	78	Tonopah Test Range, NV (Sandia National Laboratories/Tonopah)
32*	Laboratory for Energy-Related Health Research, CA	79	Tracy Pump and Substation, CA
33	Lawrence Berkeley National Laboratory, CA	80	Troutdale Substation, OR
34*	Lawrence Livermore National Laboratory - Livermore Site, CA	81	Waste Isolation Pilot Plant, NM (Carlsbad, NM)
35*	Lawrence Livermore National Laboratory - Site 300, CA	82	Watertown Maintenance Facility, SD
36	Liberty Substation, AZ	83*†	Wayne Site, NJ
37	Los Alamos National Laboratory, NM	84	Weeks Island, LA
38	Lovelace Inhalation Toxicology Research Institute, NM	85*	Weldon Spring Site Remedial Action Project, MO
39*†	Maywood Site, NJ	86	West Hackberry Site, LA
40†	Middlesex Sampling Plant, NJ	87	Western Environmental Technology Office, MT
41	Midway Substation, WA	88††	Yucca Mountain Site, NV
42*	Monticello Mill Site and Monticello Vicinity Properties, UT		
43	Montrose Power Operations Center, CO		
44	Morgantown Energy Technology Center, WV		
45*	Mound Plant, OH		
46	National Institute for Petroleum and Energy Research, OK		
47	National Renewable Energy Laboratory, CO		

* NPL Site

** Three NPL Sites

† Site transferred to the U.S. Army Corps of Engineers

†† Mistakenly placed on NPL; removed in FY 1997

Figure I-1. Locations of All DOE Facilities/Sites Subject to Section 120 of CERCLA - Key (Continued).

- Cleanup - the site is in the final design or remediation phase. This phase includes all cleanup work until documentation has been submitted to the proper authorities for approval. It does not include interim or removal actions unless the removal action is expected to constitute the final action.
- Completed - a response action is considered complete once a no action decision has been made and the documentation sent to the regulators, or physical remediation has been completed and the documentation has been submitted to the regulators.

In August 1997, there were approximately 11,000 release sites identified and for which EM is responsible for cleanup. Figure I-2 displays the current progress of the approximately 5,300 release sites for those DOE facilities on the NPL through the assessment, cleanup, and completed phases.

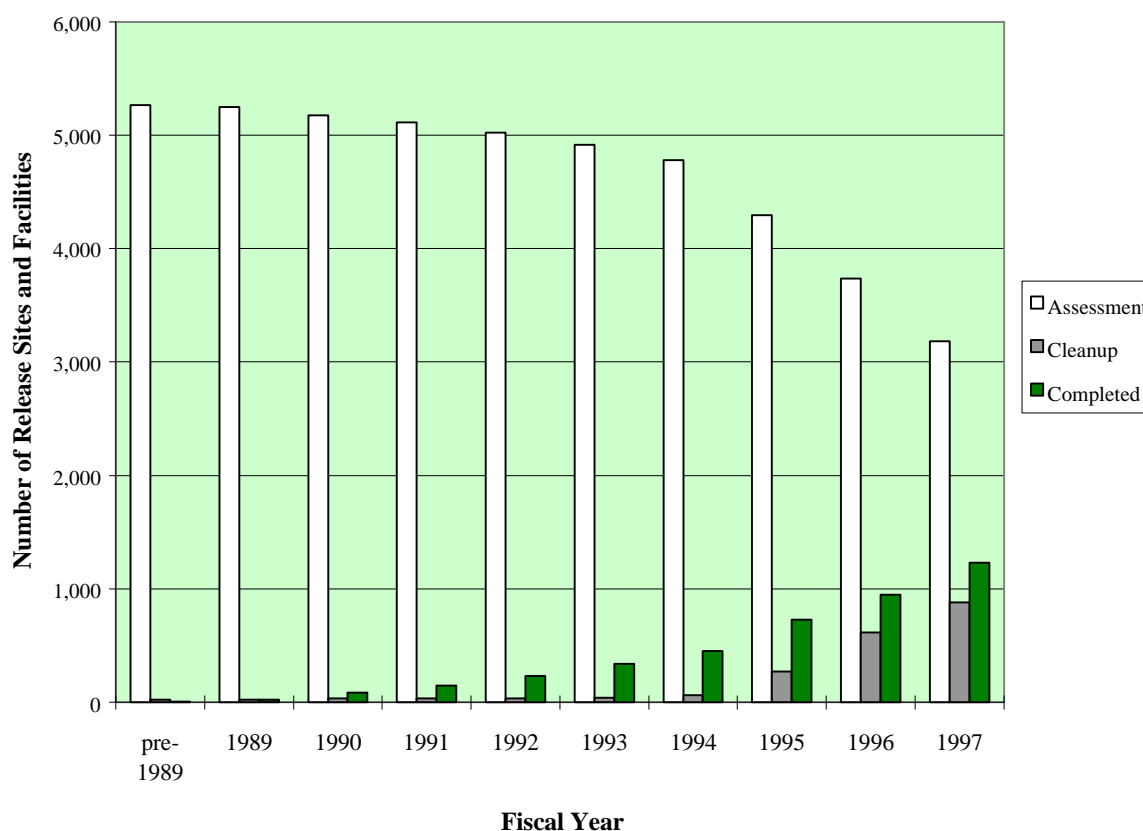


Figure I-2. Number of DOE Release Sites in Different Phases of Remediation

To determine what phase of restoration (i.e., assessment, cleanup, or completed) a release site is to be assigned for a fiscal year, EM uses the following assumptions:

- If a release site's remedial activities were completed before the end of the fiscal year (September 30 for that year), the release site is determined to be "completed";
- If a release site has completed the assessment phase but has not yet completed the remediation activities within a given fiscal year, the release site has been determined to be in the "cleanup" phase; and
- If a release site has not completed its assessment activities before the end of the fiscal year, the release site has been determined to be in the "assessment" phase.

For those release sites where the assessment phase and completed phase occurred in the same fiscal year, the release site has not been included in the cleanup phase for any fiscal year.

I.D. Contents of the Balance of This Report

This report presents information on contaminated sites at DOE facilities that were placed on the NPL as of September 1997, and on facilities on the docket as of June 27, 1997 (Docket Number 10). These versions of the NPL and docket were the last versions published before FY 97 ended. Information on DOE sites and facilities placed on the NPL or docket after FY 97 ended will be included in subsequent CERCLA reports to Congress. In this Chapter of the report and in subsequent Chapters, the words "site" and "facility" are used interchangeably.

This report does not contain information on DOE remedial activities at sites that have not been placed on the docket and thus are not subject to the requirements of Section 120 of CERCLA. These sites may include: 1) NPL sites that are not owned by DOE (such as the Maxey Flats Disposal Site in Kentucky, where DOE has been named as a Potentially Responsible Party); 2) Uranium Mill Tailings Remedial Action (UMTRA) project sites; 3) sites in the Formerly Utilized Sites Remedial Action Program (FUSRAP), which were transferred to the U.S. Army Corps of Engineers as a result of the Energy and Water Development Appropriations Act, 1998; and 4) non-DOE sites that became contaminated as a result of nuclear research and development activities sponsored by DOE and its predecessor agencies.

Chapter II describes DOE's CERCLA compliance strategy and identifies the:

- DOE organizations responsible for CERCLA compliance,
- Legal context for DOE's remediation activities,
- Causes of environmental contamination at DOE facilities,
- Approach to environmental restoration used by other DOE organizations.
- CERCLA compliance activities performed by the Western Area Power Administration (WAPA), Federal Energy Technology Center - Pittsburgh (FETC-Pittsburgh), Bonneville Power Administration (BPA), and the Federal Energy Technology Center - Morgantown (FETC-Morgantown).

Chapter III provides a discussion of DOE's overall progress in reaching IAGs and responding to public comments regarding proposed IAGs. It also identifies instances where no IAG has been concluded. Chapter III further provides highlights on progress in conducting RI/FSs, remedial actions, and response activities at NPL sites, and in performing cleanup activities at sites not on the NPL.

Chapter IV provides a detailed description of the status of each NPL facility subject to CERCLA Section 120 on a state-by-state basis. Included in this Chapter is a description of the hazards presented, plans and schedules for initiating and completing response actions, enforcement status (where appropriate), and an explanation of any postponements or failure to complete response action. This Chapter identifies DOE's FY 97 funding, appropriated FY 98 funding, and funding requested in the President's Budget for FY 99 for environmental restoration at each NPL facility.

Appendix A is a list of the acronyms and abbreviations used in this report.

Appendix B is an alphabetical listing of the facilities discussed in this report by facility name showing the pages in the report on which their primary information is discussed.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
Arizona	Liberty Substation (WAPA)	U	Onsite soil/chemical contamination. PA completed in FY 93 and submitted to EPA.
California	Laboratory for Energy-Related Health Research (LEHR)	F	Onsite soil and potential offsite groundwater/chemical and radioactive contamination. In FY97 the Federal Facility Agreement was being negotiated. The RI/FS Work Plan has been implemented. DOE and the University of California-Davis have negotiated a MOU identifying the areas to be cleaned up by each party. Removal actions are being planned in the development of an EE/CA for the Southwest Trenches area.
	Lawrence Berkeley National Laboratory	U	Onsite soil and groundwater/chemical and radioactive contamination. The RCRA Facility Investigation (RFI) Phase I progress report was submitted in November 1994, and the Phase II report was submitted on November 15, 1995. The Phase III report was submitted in FY 97. Site Characterization was completed in FY 98.
	Lawrence Livermore National Laboratory - Livermore Site	F	Onsite groundwater, soil/chemical, and offsite groundwater contamination. Completed hydraulic capture of the southwestern offsite plumes. Four permanent, six portable groundwater treatment facilities (PTUs) and one vapor extraction unit are in operation. Completed emergency removal action of contaminated waste at National Ignition Facility construction site. Four additional PTUs began operation in FY 98. Groundwater contamination offsite has been significantly reduced.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
California (Continued)	Lawrence Livermore National Laboratory - Site 300	F	Onsite soil and groundwater/chemical, radioactive, and offsite groundwater contamination. The General Services Area (GSA) OU Draft Record of Decision (ROD) was completed and two interim Remedial Action groundwater treatment facilities continued operation. The Building 834 OU groundwater/vapor treatment facility continued operations. Initiated Pit 6 Removal Action in FY 97.
	Naval Petroleum Reserve Nos. 1 and 2	U	Onsite soil/chemical contamination. The site has been characterized as No Further Remedial Action Planned.
	Oxnard Facility	U	Onsite suspected soil and groundwater/chemical contamination. A Phase II Assessment revealed potential PCB contamination in soils. Final Assessment and Remediation Reports were completed in February 1996 and submitted to the Rocky Flats Office for final facility disposition.
	Parker Dam Switchyard (WAPA)	NA ⁸	Onsite soil/chemical contamination. The PA was completed in FY 93. The site was deleted from the docket June 27, 1997.
	Sandia National Laboratories/California	U	Onsite soil and groundwater/chemical contamination. The site completed construction of the in-situ bioremediation pilot study at the Fuel Oil Spill Site in FY 95, and the third injection phase of the bioremediation phase began in the summer of 1996 and continued in 1997. Additional groundwater monitoring continued at the Navy Landfill.
California (Continued)	Santa Susana Field Laboratories (Energy Technology Engineering Center)	U	Onsite groundwater and soil/chemical and radioactive contamination; offsite groundwater/chemical and radioactive contamination. Groundwater investigations are continuing under RCRA and the Regional Water Quality Control Board (RWQCB) authorities. Completed D&D of the Hot Cell and the Large Leak Test Rig (LLTR), initiated D&D of the Small Component Test Loop (SCTL), and completed the first phase of bulk sodium removal.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
	Stanford Linear Accelerator Center	U	<p>Onsite groundwater and soil/chemical contamination; offsite soil/PCB contamination.</p> <p>PCB contamination at Interaction Region 6 and 8 drainage has been removed, and the site has been restored to natural contours. Completed Catch Basin Interim Removal Action Project and completed plans for remaining Release Site remediation. The Remedial Investigation (RI) at other release sites and interim removal action at Master Substation Site were in progress.</p>
	Texaco Section 8 Central Solid Waste Site	N	<p>Contamination unknown.</p> <p>No further remedial action required.</p>
	Texaco Section 8 Gas Plant	N	<p>Contamination unknown.</p> <p>No further remedial action required.</p>
	Tracy Pump and Substation (WAPA)	U	<p>Onsite soil/chemical contamination.</p> <p>The PA/SI was submitted in FY 93. Region IX had indicated in early FY 94 that no further action would be required on the site. No Further Remedial Action Planned status has been recommended by EPA.</p>

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
Colorado	Anvil Points Facility, Naval Oil Shale Reserve No. 3	N	<p>Onsite soil contamination.</p> <p>Prior to FY 93, the PA was submitted and an SI plan was requested by the state. A PA/SI document was approved by the EPA in June 1994. The site has been classified as No Further Remedial Action Planned; however, the site continues to sample the groundwater at the shale pit and to monitor the results. Results from the groundwater samples show less and less movement of materials at the site. DOE planned to transfer this site to the Bureau of Land Management.</p>
	Fort Morgan Substation (WAPA)	N	<p>Onsite soil contamination (oil) with possible groundwater contamination.</p> <p>A PA/SI was submitted in January 1995. The site was assigned No Further Remedial Action Planned status in March 1995.</p>
	Grand Junction Office Remedial Action Project	N	<p>Onsite groundwater/mixed waste contamination and radioactive contamination in buildings.</p> <p>The site soils and groundwater has been classified as No Further Remedial Action planned. Further decommissioning is planned through FY 2001.</p>
	Montrose Power Operations Center (WAPA)	N	<p>Onsite soil/chemical contamination.</p> <p>The site has been classified as No Further Remedial Action Planned.</p>
	National Renewable Energy Laboratory	N	<p>No known contamination.</p> <p>The site has been classified as No Further Remedial Action Planned.</p>
	Rocky Flats Environmental Technology Site (formerly the Rocky Flats Plant)	F	<p>Onsite groundwater, surface water, and soil/chemical, radioactive, mixed contamination; offsite soil/radioactive contamination.</p> <p>Five RODs have been completed and approved by the regulatory agencies. Operable Units were reorganized, with the Buffer Zone and Industrial Area encompassing most of the site. Separate RODs would still have to be completed for OUs 5, 6, and 7.</p>

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
Connecticut	Knolls Atomic Power Laboratory, Windsor Site	N	No known contamination. The site was classified as No Further Remedial Action Planned in FY 90.
Florida	Pinellas STAR Center	U	Onsite soil and groundwater and offsite groundwater/chemical contamination. 4.5 Acre State Lead CERCLA Site. CERCLA Potentially Responsible Party Involvement: One de minimis settlement has been executed. One CERCLA Section 104 (e) response has been submitted. One Corrective Measures Implementation Plan (CMIP) is to be implemented in FY 99.
Hawaii	Kauai Test Facility	N	Elevated metals in soil at the Rocket Launcher Field. The PA Report was submitted in January 1994. The SI was completed in May 1994; the SI Report was begun in June 1994 and was submitted in FY 95. A no further action request that was submitted by DOE was approved by the EPA early in FY 97.
Idaho	Idaho National Engineering and Environmental Laboratory (INEEL) INEEL Argonne National Laboratory - West	F	Onsite groundwater and soil/chemical and radioactive contamination. Completed one draft RI/BRA, two draft RI/FS, one draft ROD, one draft Proposal Plan, two RI/FS Work Plans, one finalized RI/FS Statement of Work (SOW), and submitted one revised RI/FS SOW. Four Release Site Assessments and five Release Site Cleanups were completed in FY 97. One facility assessment and six facility decommissions were completed in FY 97. Fifty-four of 81 potential release sites were signed off as "no further action." RI/FS was submitted in June 1997.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
Illinois	Argonne National Laboratory - East	U	<p>Offsite groundwater with volatile organic contamination; onsite groundwater/soil with chemical and radioactive contamination.</p> <p>Remedial actions continued in FY 97 as voluntary corrective actions in coordination with the state. Three interim actions were completed. A draft RCRA Corrective Action Permit was issued in September 1997.</p>
	Fermi National Accelerator Laboratory	N	<p>Onsite soil and groundwater/chemical contamination and soils contaminated with PCBs.</p> <p>The PA was submitted to EPA Region V in November 1993. The site has been classified as No Further Remedial Action Planned. A draft RFI Work Plan for the Phase II Investigation at two solid waste management units was submitted to the Illinois EPA on September 8, 1995. The Phase I Sampling Plan for four newly identified solid waste management units was submitted to the Illinois EPA in November 1995.</p>
Iowa	Ames Laboratory	U	<p>Offsite soil and groundwater with radioactive and organic contamination.</p> <p>Two thousand cubic yards of soil and debris contaminated with radioactive and hazardous waste were removed and disposed of offsite in FY 95. The Source Removal Action Report for the Chemical Disposal Site was submitted to the state in FY 95. A study to characterize groundwater contamination and recommend any further actions, such as monitoring, for the Chemical Disposal Site was implemented in FY 96 and completed in FY 97.</p>
	Hinton Hazardous Waste Storage Facility (WAPA)	N	<p>Onsite soil contamination.</p> <p>The site was classified as No Further Remedial Action Planned in FY 93. Soil was incinerated and disposed of in November 1993. Closure was completed in February 1995.</p>

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
Kentucky	Paducah Gaseous Diffusion Plant ²	F	<p>Onsite and offsite soil contamination concerning PCBs, metals, and radionuclides characteristic of the uranium enrichment process. Onsite and offsite groundwater contamination concerning primarily trichloroethylene and technetium-99. There are two major offsite groundwater plumes.</p> <p>One ROD was submitted and one ROD was issued in FY 97. The site completed construction of the NE Plume Interim Remedial Action. Demonstrated innovative technologies for solvent contaminated soil and technetium contaminated groundwater remediation.</p>
Louisiana	Weeks Island (SPRO)	N	<p>No known contamination.</p> <p>A determination was made by EPA Region VI on September 16, 1991 that no PA/SI was required. The site was classified prior to FY 93 as No Further Remedial Action Planned.</p>
	West Hackberry Site (SPRO)	N	<p>No known contamination.</p> <p>A determination was made by EPA Region VI on September 16, 1991 that no PA/SI was required. The site was classified as No Further Remedial Action Planned in FY 93.</p>
Missouri	Kansas City Plant	U	<p>Onsite soil, groundwater, and air/chemical contamination.</p> <p>Assessments for 42 out of 43 release sites were completed. Thirty-eight release sites out of 43 were either cleaned up or submitted for No Further Action, including four in FY 97.</p>
	St. Louis Site (St. Louis Airport Site and Vicinity Properties, and St. Louis Downtown Site, Latty Avenue Properties)	NA ³	<p>Onsite soil, primarily radioactive with limited chemical contamination; offsite soil and sediments/radioactively contaminated.</p> <p>Approval of the FS was delayed and the ROD was deferred. Final remedial actions were expected to accommodate stakeholder recommendations. Remedial action was performed at 14 vicinity properties, 10 buildings were demolished, and one building was decontaminated in FY 97.⁴</p>

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
Missouri (Continued)	Weldon Spring Site Remedial Action Project	F	Onsite and offsite soil and groundwater/chemical and radioactive contamination. The site began construction of the onsite disposal facility in December 1996 and the chemical stabilization/solidification facility in May 1997.
Montana	Western Environmental Technology Office (WETO) (formerly Component Development and Integration Facility)	N	Facility no longer owned by DOE. Ownership transferred to Butte Local Development Corporation.
	Hot Springs Substation TLM Complex (BPA)	N	Soil and groundwater chemical contamination. The site was characterized by EPA as No Further Remedial Action Planned in FY 94.
Nebraska	Sishsc Foundry Site (WAPA)	U	Suspected lead contamination. The PA/SI was completed. The site was given "Non-Time Critical Removal Action" status by EPA Region VIII. A Draft Engineering Evaluation/Cost Analysis (EE/CA) was submitted to the EPA in February 1994 for comment. A Removal Action Memorandum was signed in August 1994. Demolition of the foundry was completed in February 1995. Closure was formalized in 1996.
Nevada	Nevada Test Site	U	Onsite soil and groundwater/radioactive contamination. The Environmental Restoration Sites Inventory was initiated. Progress continued on the Underground Test Area Operable Unit. The FFA and Consent Order was completed in May 1996. Completed closure of the Double Tracks Site; completed Bullion Forced Gradient Experiment; completed Frenchman Flat Corrective Action Investigation Plan; completed characterization of Area 6 Decon Pond Facility; began remediation of REECO Pits and Surface Ground Zero Pits at Salmon Site in Mississippi; and completed a special sampling project at Amchitka Island, Alaska.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
Nevada (Continued)	Sandia National Laboratories/ Tonopah Test Range (TTR)	U	Soil contamination from petroleum hydrocarbons and RCRA constituents; ordnance, scattered depleted uranium, surface soil plutonium contamination. In FY 97: completed final CADD for second Gas Station; completed Corrective Action Investigation (CAI) Field Work for Area 3 Landfill Complex; completed final CADD and CAP for Cactus Spring Waste Trenches, and for Roller Coaster Sewage Lagoons; completed final CAIPs for Areas 2 and 6 Septic Waste Systems and for Building 360 Underground Discharge Point; completed final CR for Bomblet Pit/Five Points Landfill; and completed CAI Field Work for Area 9 UXO Landfill.
	Yucca Mountain Site	D ⁸	No known contamination. Site was mistakenly placed on the NPL. Removed from the NPL and the docket June 27, 1997.
New Jersey	Maywood Site	F	Onsite and offsite soil/radioactive and potential chemical contamination; approximately 54 vicinity properties radioactively contaminated; groundwater contamination beneath the pile; offsite sources. DOE and EPA Region II were negotiating a schedule for issuing a Proposed Plan for the site. Remedial action of the Maywood Interim Storage Site Pile was completed. Ongoing remedial actions continued at vicinity properties with seven properties completed during FY 97. ⁴
	Middlesex Sampling Plant	U	Onsite soil/radioactive contamination. During FY 97, the storm water drainage piping relocation was completed, as well as demolition of the MSP building. ⁴
	New Brunswick Laboratory	N	Onsite soil/radioactive contamination. Cleanup was completed in 1997. ⁴

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
New Jersey (Continued)	Princeton Plasma Physics Laboratory	U	Onsite groundwater and soil contaminated with volatile organic compounds. Removal of contaminated soil was completed in FY 96. A study to characterize soil and groundwater contamination and recommend a final remedy for the "C/D Site" will be completed in FY 98. Payment to Princeton University for remediation of the "A/B Site" was made in FY 97 and will continue in future fiscal years as funds become available.
	Wayne Site	F	Onsite soil/radioactive and potential chemical contamination; groundwater contamination beneath pile; potential offsite sources. DOE and EPA Region II were negotiating a schedule for issuing a Proposed Plan for the site. Remedial action of the interim storage pile continued and pile removal was approximately 75 percent complete. ⁴
New Mexico	Gasbuggy	U	Casing of the main monitoring well defective. Conducted groundwater characterization in well 10-36. Continued long-term hydrogeologic monitoring program; sampled nearby gas company well.
	Gnome-Coach	U	Groundwater contamination/radioactive contamination. Initiated preparation of surface/subsurface Corrective Action Implementation Plan. Continued long-term hydrogeologic monitoring program and began surface corrective action.
	Los Alamos National Laboratory	U	Onsite soil/chemical and radioactive contamination. Approximately two-thirds of all 2000+ release sites have been proposed for No Further Action. Many complex sites remain to be evaluated.
	Lovelace Biomedical and Environmental Research Institute (formerly ITRI)	NA	Onsite soil/chemical and radioactive contamination; groundwater/chemical contamination. Remediation of all sites was completed in FY 96. The site was privatized in October 1996 and is no longer a DOE facility.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
New Mexico (Continued)	Ross Aviation, Inc.	NA	Onsite soil/chemical contamination. In early 1992, the site was incorrectly reported as a CERCLA site. This site does not have reportable CERCLA activity.
	Sandia National Laboratories/New Mexico	U	Onsite soil and groundwater/chemical and radioactive contamination. Approximately 90 percent of the release sites have been completed. A CAMU is under construction. Project will be completed in 2002.
	Waste Isolation Pilot Plant	U ⁵	No known contamination. The Compliance Certification under 49 CFR 191 and 194 was issued in May 1998 by EPA.
New York	Brookhaven National Laboratory	F	Groundwater and soil/chemical and radioactive contamination. The OU III RI/FS, OU I Proposed Plan, and OU VI ROD were submitted. Three groundwater treatment systems became operational. Buried waste was excavated, and an additional landfill capped. Municipal water hookups were provided to over 1300 homes.
	Colonie Site	N	Onsite soil and building contamination. The power line corridor was remediated and the residual process building demolition waste was treated and disposed of in FY 97. ⁴
	Knolls Atomic Power Laboratory, Niskayuna and West Milton Sites	N	Minor soil and groundwater contamination/chemical and radioactive contamination at both sites. Both sites were classified as No Further Remedial Action Planned in FY 94.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
New York (Continued)	Niagara Falls Storage Site	N	Former radioactive contamination. Site remediation was completed in 1986. The DOE/EPA/state were working toward applicable long-term management criteria for onsite radioactive residues. Radioactive wastes were disposed of in an onsite disposal cell. In December 1995, the National Academy of Sciences issued a report recommending a long-term approach addressing the high level (K-65) residues buried in the onsite disposal cell. ⁴
Ohio	Fernald Environmental Management Project (formerly Feed Materials Production Center)	F	Onsite and offsite air, sediment, soil, and groundwater/radioactive and chemical contamination. All OU RI/FS activities were completed. All OU RODs were approved. All Removal Actions were completed or incorporated into the RD/RA Work Plan. RD/RA Work Plans for OUs 1, 2, 3, 4, and 5 were approved. Designs for OUs 1, 2, 3, 4, and 5 were initiated or completed in FY 96 and FY 97.
	Mound Plant	F	Onsite and offsite soil/radioactive contamination; onsite and offsite groundwater/chemical and tritium contamination. Field work for the Miami-Erie Canal Removal Action continued in FY 97 with the shipment of approximately 816,000 cubic feet of Pu-238 contaminated soil. This represents shipping 367 railcars of soil to Envirocare in Utah for disposal. Installation of an Air Sparging/Soil Vapor Extraction System was initiated to help supplement and enhance the OU 1 Groundwater ROD remedy of pump and treat of VOC contaminated groundwater which serves as a drinking water source for the City of Miamisburg and the Mound Plant. This system is in operation. The Area 7 actinium removal was completed. Building 21 thorium contaminated soil removal was initiated. In FY 97, EPA, the Ohio Environmental Protection Agency, and DOE determined that 156 potential release sites required no further assessment, 14 potential release sites required a response action, and 39 were determined to require further assessment before a decision could be made about the action.
Ohio (Continued)	Portsmouth Uranium Enrichment Complex ² (also known as Portsmouth Gaseous Diffusion Plant).	U	Onsite soil and groundwater/chemical and radioactive contamination. No CERCLA activities were conducted during FY 97. Portsmouth was involved with RCRA corrective action and closure activities.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
Oklahoma	National Institute for Petroleum and Energy Research	U	Onsite soil/chemical contamination. The site submitted a PA on August 10, 1994. The Hazard Ranking Score was below 28.5(14); thus, no further actions are planned. EPA has not responded to the PA.
Oregon	Alvey Maintenance Headquarters (BPA)	N	Onsite soil/chemical contamination. The site was characterized by EPA as No Further Remedial Action Planned.
	Bake Oven Substation (BPA)	U	Potential PCB contamination. PCB cleanup has been completed. The final draft report was sent to EPA Region X. A Memorandum of Agreement (MOA) was completed in August 1994. Deleted from the Federal Facilities Docket on June 27, 1997.
	Celilo Converter Station (BPA)	U	Onsite soil/chemical contamination. A PA was submitted in FY 95. An SI report was submitted to EPA in FY 96. The site was characterized as "No Further Remedial Action Planned" on December 6, 1996, by EPA.
	Ostrander Substation (BPA) ⁶	N	Onsite chemical contamination, no contamination of media. A PA was submitted to EPA Region X in October 1993. The site was characterized by EPA as No Further Remedial Action Planned in FY 94.
	Troutdale Substation (BPA)	N	Onsite soil/chemical contamination. The site was characterized by EPA as No Further Remedial Action Planned.
Pennsylvania	Bettis Atomic Power Laboratory, West Mifflin	N	Minor soil and groundwater contamination/chemical and radioactive contamination. This site was characterized as No Further Remedial Action Planned in FY 90. No further EPA action is required.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
	Federal Energy Technology Center - Pittsburgh ⁷	U	Onsite soil and groundwater contamination. The site sampling and analysis program has been completed. Remediation for areas of concern was completed during FY 97. Based on the sampling and analysis, no further significant soil remediation is planned. The human health and ecological risk assessment is in the process of being updated. Groundwater monitoring was continued on a routine basis.
Puerto Rico	Center for Energy and Environmental Research	NA	Onsite soil/radioactive contamination. The El Verde Research Station was transferred to the U.S. Forest Service.
South Carolina	Savannah River Site	F	Onsite groundwater, soil and air/chemical and radioactive contamination. Nine RCRA Facility Investigation/Remedial Investigation Plans submitted, 24 Site Evaluation Reports generated, five RFI/RI/Baseline Risk Assessment Reports, and 11 removal actions started. Eight RODs for 10 waste units were issued.
South Dakota	Watertown Maintenance Facility (WAPA)	N	Onsite potential soil/chemical contamination. A PA was submitted in May 1990, and an SI was submitted in October 1991. The site was characterized as No Further Remedial Action Planned in October 1994.
Tennessee	Oak Ridge Reservation: K-25 Site (Oak Ridge Gaseous Diffusion Plant)	F	Onsite groundwater, soil and surface water/chemical and radioactive contamination. Site is now called the East Tennessee Technology Park. In FY 97, 18 remedial action assessments, three remedial action cleanups, 41 Decontamination & Decommissioning (D&D) assessments and 36 D&D facility cleanups were completed.
Tennessee (Continued)	Oak Ridge Reservation (Continued) Oak Ridge Associated Universities		Onsite groundwater, soil and surface water/chemical and radioactive contamination. The South Campus Facility ROD was approved in FY 96. Two vicinity properties were completed.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
	Oak Ridge National Laboratory		Onsite groundwater, soil, and surface water/chemical and radioactive contamination. In FY 97, 18 remedial action assessments, six remedial action cleanups, and one D&D facility cleanup were completed.
	Y-12 Plant		Onsite groundwater, soil, and surface water/chemical and radioactive contamination. Three remedial action assessments, five remedial action cleanups and one D&D assessment were completed.
	Offsite		Offsite soil and surface water/chemical and radioactive contamination, mercury and other heavy metals, PCBs, and traces of uranium in floodplain, soils, and sediment. Thirteen remedial action assessments and eight remedial action cleanups were completed.
Texas	Big Hill Site (SPRO)	N	No known contamination. A determination was made by EPA Region VI on September 16, 1991 that no PA/SI was required, and the site was characterized as No Further Remedial Action Planned.
	Pantex Plant	F	Onsite soil and groundwater/chemical and radioactive contamination. The FFA was under negotiation. Nineteen release sites were closed in FY 97, including two as No Further Action Required and 17 as completed cleanups.
Utah	Monticello Mill Site	F	Onsite and offsite groundwater, soil and surface water/chemical and radioactive contamination. Remedial action was continuing at the Mill Site. An onsite repository has been completed and 610,000 cubic yards of tailings placement was completed. The wastewater treatment plant was installed, tested, and operated to treat contaminated runoff. The repository excavation and liner installation were completed early in FY 97. Remedial action for OU 2 was completed at one peripheral property. The scope of the OU 3 interim remedial action and a non-time critical removal action for soils and sediment along Montezuma Creek was agreed upon by the regulators.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
	Monticello Vicinity Properties	NA ³	Onsite and offsite groundwater, soil, and surface water/chemical and radioactive contamination. Remedial actions were completed on 18 more of the 420 Vicinity Properties in FY 97, bringing the total completed to 414. Remedial design and remedial action for other Monticello Vicinity Properties were continuing.
Washington	Hanford Site Area 100 Independent Unit-3 (2-4D) Site	U	Onsite soil/chemical contamination. Contaminated materials were removed. No Further Action Record of Decision was issued in 1996. Deletion from the docket was requested for this site.
	Columbia Substation (BPA)	N	Onsite soil/chemical contamination. The site was characterized by EPA as No Further Remedial Action Planned.
	Covington Substation (BPA)	U	Onsite soil/chemical contamination. An Addendum to the SI report has been submitted to EPA Region X. Onsite source control was planned and completed in FY 98.
	G.H. Bell Substation and Maintenance Complex (BPA)	N	Onsite soil/chemical contamination. The site has been characterized by EPA as No Further Remedial Action Planned.
Washington (Continued)	Hanford Site - Area 100	F	Onsite groundwater and soil/chemical and radioactive contamination. Declaration of ROD for selected sections for 100-IV-1, 100-IV-3, 100-IV-4 and 100-IV-5, February 12, 1996. ROD for 100-BC-1, 100-DR-1 and 100-HR-1 Operable Units, November 1995. Amended ROD for selected remedial actions, May 14, 1997. Declaration of ROD for 100-HR-3 and 100-KR-4, April 1, 1996.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
	Hanford Site - Area 200	F	Onsite groundwater and soil/chemical and radioactive contamination. Declaration of ROD for IRA for 200-UP-1, February 1997. Declaration of ROD for Interim Remedial Measure (IRM) for 200 ZP-1 Operable Unit, June 1995.
	Hanford Site - Area 300	F	Onsite groundwater and soil/chemical and radioactive contamination. Declaration of ROD for 300-FF-1 and 300-FF-5. The ROD was signed on July 17, 1996.
	Hanford Site - Area 1100	D ⁸	Onsite groundwater and soil/chemical and radioactive contamination. Cleanup of the area was completed in FY 95. The 1100 Area was deleted from the NPL on September 30, 1996.
	Midway Substation (BPA)	N	Onsite soil/chemical contamination. This site has been characterized by EPA as No Further Remedial Action Planned.
	Olympia Substation (BPA)	N	Onsite soil/chemical contamination. This site was characterized as No Further Remedial Action Planned in FY 94.
	Port Angeles (BPA)	N	Onsite chemical contamination. This site was characterized as No Further Remedial Action Planned in FY 95.
Washington (Continued)	Ross Complex (BPA)	F ⁸	Onsite soil and potential groundwater/chemical contamination. All remediation activities and associated reports were completed either in FY 95 or in FY 96. EPA deleted the Ross Complex from the NPL on September 23, 1996.
	Snohomish Substation (BPA)	N	Onsite soil/chemical contamination. This site was characterized as No Further Remedial Action Planned in FY 94.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

STATE	DOE FACILITY	DOCKET STATUS	TYPE OF CONTAMINATION/STATUS OF REMEDIATION
West Virginia	Federal Energy Technology Center - Morgantown	N	Onsite soil and potential groundwater/chemical contamination. All requested information/data has been provided to EPA Region III. The Preliminary Assessment/Site Investigation (PA/SI) is under final review and scoring by EPA Region III.
Wyoming	Casper Field Branch (WAPA)	N	No known contamination. This site was characterized as No Further Remedial Action Planned on April 11, 1995.
	Hoe Creek	N	Onsite groundwater/chemical contamination. The Air Sparge pilot demonstration at Hoe Creek II was completed in 1997. Construction of the final remedial action alternative Air Sparge/Bioremediation system at Hoe Creek II was initiated in September 1997. Sixty-four wells were drilled, cased, and fitted for air lines for the air sparge system installation. The air sparge system was expected to be in operation by late 1997 and was expected to take one to three years for groundwater cleanup. The pilot demonstration project at Hoe Creek III was initiated with the drilling of seven wells and air lines installed for the air sparge pilot system. The Hoe Creek III pilot will demonstrate air flow in the Felix I and II coal seams. The remedial action Air Sparge/Bioremediation system at Hoe Creek III is expected to be installed by December 1998.
Wyoming (Continued)	Rock Springs Oil Shale Retort	N	Onsite groundwater/chemical contamination. The evaluation of potential contamination from four retort sites and of a potable regional aquifer that underlies the Oil Shale Retorts Area was completed in FY 97. A long-term (180 day) pump test at Site 9 was completed and results incorporated into additional remedial pilot demonstrations to be conducted at sites 9 and 12. Pilot demonstrations at the three additional sites will occur in FY 98, and a preferred remedial alternative for groundwater cleanup is expected by the end of FY 98.

¹ Acronyms and abbreviations used in this table are found in Appendix A.

² The Paducah Gaseous Diffusion Plant in Kentucky and the Portsmouth Uranium Enrichment Complex in Ohio are DOE sites at which the U.S. Enrichment Corporation generates hazardous waste as a site operator.

Table I-1. Status of All DOE Facilities/Sites Subject to Section 120 of CERCLA¹ (Continued)

- ³ The St. Louis Site and the Monticello Vicinity Properties are privately owned facilities and are not listed on the docket; they are on the NPL, however, and DOE is responsible for their remediation.
- ⁴ Responsibility for this and other FUSRAP sites was transferred by Congress to the Army Corps of Engineers under the Energy and Water Development Appropriations Act, 1998.
- ⁵ EPA has been informed by DOE that the Sandia National Laboratory/Tonopah Site in Nevada and the Carlsbad Site in New Mexico are already on the docket as Tonopah Test Range and Waste Isolation Pilot Plant, respectively.
- ⁶ This site is listed on the docket as "Oregon City (BPA)." EPA has been notified that the docket name is incorrect.
- ⁷ The responsible agency listed in the docket for the Pittsburgh Energy Technology Center has been changed to the Department of Labor, Mine Safety & Health Administration. DOE believes this is an error.
- ⁸ The last official publication of the CERCLA Docket was on June 27, 1997 (Docket Number 10). These sites are no longer on the docket.

Key: NA = Not Applicable
U = Undetermined
N = No Further Remedial Action Planned
F = Currently Final on the NPL
D = Deleted from the NPL